THE WEIZMANN SCIENCE PRESS OF ISRAEL

National Council for Research and Development

ISRAEL Journal of MATHEMATICS

Volume 16
1973

מוסד ויצמן לפרסומים במדעי הטבע ובטכנולוגיה, ירושלים
THE WEIZMANN SCIENCE PRESS OF ISRAEL

Publishers of the following journals

ISRAEL JOURNAL OF BOTANY; ISRAEL JOURNAL OF CHEMISTRY;
ISRAEL JOURNAL OF EARTH-SCIENCES; ISRAEL JOURNAL OF MATHEMATICS;
ISRAEL JOURNAL OF TECHNOLOGY; ISRAEL JOURNAL OF ZOOLOGY;
JOURNAL D'ANALYSE MATHEMATIQUE

(SCIENCE FOR YOUTH) לרעת מדע לנוער המתבגר

(SCIENCE) בטע עתון מדעי לכל

Supporting Institutions

THE NATIONAL COUNCIL FOR RESEARCH AND DEVELOPMENT;
BAR-ILAN UNIVERSITY; TECHNION — ISRAEL INSTITUTE OF TECHNOLOGY;
TEL AVIV UNIVERSITY; THE HEBREW UNIVERSITY OF JERUSALEM;
THE UNIVERSITY OF THE NEGEV; THE WEIZMANN INSTITUTE OF SCIENCE

GENERAL EDITORIAL BOARD

D. ABIR
I. ARNON
A. DVORETZKY
I. ESTERMANN
H. EYAL-GILADI
H. HANANI
M. JAMMER
J. JORTNER
E. KATZIR (KATCHALSKY)
N. SHARON
G. STEIN

Executive Editor
L. LESTER

ISRAEL JOURNAL OF MATHEMATICS

Formerly: Bulletin of The Research Council of Israel, Section F

Editorial Board

A. PAZY AND B. WEISS, *The Hebrew University of Jerusalem, Executive Editors*
S. ABARBANEL, *Tel Aviv University*
B. GRÜNBAUM, *University of Washington, Seattle, Wash., U. S. A.*
I. N. HERSTEIN, *The Weizmann Institute of Science, Rehovot*
A. LEVY, *The Hebrew University of Jerusalem*
J. LINDENSTRAUSS, *The Hebrew University of Jerusalem*
E. NETANYAHU, *Technion — Israel Institute of Technology, Haifa*

Three volumes of the Israel Journal of Mathematics were published in 1973, Vols. 14, 15, and 16.

Subscriptions are to be addressed to the Weizmann Science Press, P. O. B. 801, Jerusalem 91000, Israel. In Europe, orders may be sent to Wm. Dawson & Sons Ltd., Cannon House Macklin Street, London, W. C. 2. Subscription fees per volume, U. S. $20.00. Individual members of mathematical societies may subscribe through the Weizmann Science Press at a 50% discount, i.e., U.S. $10.00.

© 1973 THE WEIZMANN SCIENCE PRESS OF ISRAEL

Printed in Israel, 1973
Jerusalem Academic Press

ISRAEL JOURNAL OF MATHEMATICS

TABLE OF CONTENTS, VOLUME 16, 1973

ADLER, R. L. AND WEISS, B. The ergodic infinite measure preserving transformation of Boole 263

BARNETTE, D. Graph theorems for manifolds 62

BENYAMINI, Y. Constants of simultaneous extension of continous functions 258

BURAK, T. Regularity properties of solutions of some abstract parabolic equations 418

BURAK, T. Two point problems and analyticity of solutions of abstract parabolic equations 404

CAMPBELL, D. M. Eventually areally mean p-valent functions 216

DASHIELL, F. K. AND LINDENSTRAUSS, J. Some examples concerning strictly convex norms on $C(K)$ spaces 329

EWALD, G. On shortness exponents of families of graphs 53

FOGUEL, S. R. Strong convergence of the iterates of an operator 159

FRIBERG, B. Canonical isotopies in euclidean space 398

FUHRMANN, P. A. On a class of finite dimensional contractive perturbations of restricted shifts of finite multiplicity 162

HAHN, F. Discrete real time flows with quasi-discrete spectra and algebras generated by $\exp q(t)$ 20

HAR-EL, J. AND KANIEL, S. Linear programming method for rational approximation 343

HERSTEIN, I. N. AND SMALL, L. W. The intersection of the powers of the radical in Noetherian P. I. rings 176

HÖRMANDER, L. Lower bounds at infinity for solutions of differential equations with constant coefficients 103

HUSTAD, O. A note of complex $\mathscr{P}_1$ spaces 117

ISAAC, R. Theorems for conditional expectations, with applications to Markov processes 362

JARCHOW, H. AND SWART, J. On Mackey convergence in locally convex spaces 150

JOHNSON, W. B. AND ZIPPIN, M. Separable L_1 preduals are quotients of $C(\Delta)$ 198

KAMAE, T. Subsequences of normal sequences 121

KANIEL, S. See J. HAR-EL

KANTOR, W. M. On homologies of finite projective planes 351

KRA, I. On new kinds of Teichmüller spaces 237

LEVIATAN, D. Some vector-valued Laplace transforms 73

LINDENSTRAUSS, J. See F. K. DASHIELL

MAGID, A. R. Invariant subrings of separable algebras 306

MANN, A. On subgroups of finite soluble groups III 446

MEJZLER, D. On a certain class of infinitely divisible distributions 1

MICCHELLI, C. A. AND RIVLIN, T. J. Numerical integration rules near Gaussian quadrature 287

PARRY, W. Notes on a posthumous paper by F. Hahn 38

POUZET, M. Extensions complètes d'une théorie forcing complète 212

RABINOWITZ, P. H. A note on topological degree theory for holomorphic maps 46

RATNER, M. The central limit theorem for geodesic flows on n-dimensional manifolds of negative curvature 181

RICHARDS, F. B. AND SCHOENBERG, I. J. Notes on spline functions IV: a cardinal spline analogue of the theorem of the brothers Markov 94

RIVLIN, T. J. See C. A. MICCHELLI

ROTHBLUM, U. G. On orderable set functions and continuity I 375

SCHOENBERG, I. J. Notes on spline functions III: on the convergence of the interpolating cardinal splines as their degree tends to infinity 87

SCHOENBERG, I. J. See F. B. RICHARDS

SHELAH, S. Differentially closed fields 314

SMALL, L. W. See I. N. HERSTEIN

SWART, J. See H. JARCHOW

TATTERSALL, J. J. On the intersection of maximal m-convex subsets 300

VESTERSTROM, J. Positive linear extension operators for spaces of affine functions 203

WEISS, B. See R. L. ADLER

WESTREICH, D. Periodic solutions of second order non-Lagrangian systems 279

ZIPPIN, M. See W. B. JOHNSON